

MODIS TECHNICAL TEAM MEETING

January 15, 1998

The MODIS Technical Team Meeting was chaired by Bob Murphy. Present were Bruce Guenther, Wayne Esaias, Bill Barnes, Eric Vermote, Steve Wharton, Ed Masuoka, Harry Montgomery and Bob Kannenberg.

1.0 SCHEDULE OF EVENTS

January 15	Semi-annual Reports Due
May 20 - 22	Next MODIS Science Team Meeting

2.0 MINUTES OF THE MEETING

2.1 MODLAND Report

Vermote reported that Justice recently learned that individual PIs will have to purchase Landsat-7 data for validation purposes. There is apparently no group license available. Murphy asked whose policy this is, and Vermote replied that he did not know. Vermote stated that Justice has contacted Steve Running and asked him to deliver his leaf area index (LAI) code to SDST.

Paul Fisher has begun chaperoning the Surface Reflectance (PGE 11) code through the GSFC DAAC (GDAAC). Vermote said that it is his understanding that further testing of the Surface Reflectance code cannot be completed until ECS Drop 3 is in place. There are also some look-up table issues that need to be worked. Wharton explained that Drop 3 is necessary to do full integration, although he does not think that at present it is the limiting factor in GDAAC testing of the Surface Reflectance code. Vermote indicated that MODLAND would like to see a better-defined communications protocol between itself, SDST and the GDAAC. Wharton replied that the current protocol--which essentially says that the GDAAC notifies all involved of any problems as soon as possible after discovery--should be adequate. Masuoka indicated that he will ask Paul Fisher, Paul Shehadi and Bruce Vollmer to discuss and resolve any communications issues.

Vermote reported that delivery of the 1 km VI code (PGE 25) will be delayed approximately 1 to 2 weeks. He asked Masuoka for clarification as to what needs to be done with the certification code (prologues, etc.); Masuoka will clarify this with the GDAAC.

2.2 Instrument Report

Barnes reported that Jim Young continues to model the IR polarization and its potential effect on the deep space maneuver. SBRS has forwarded rough order of magnitude

costs for additional FM1 testing and these will be reviewed next week. Guenther clarified that these additional FM1 tests do not include those requested by Otis Brown.

2.3 MCST Report

Guenther reported that Bruce Berriman has replaced Margie Hopkins as the manager of the GSC task. MCST is considering relocating its contractors so that they all reside in the same building.

Guenther stated that at the last MODIS Science Team (MST) meeting, MCST had expressed its intent to have made enough progress understanding the instrument and the algorithms so as not to have to go back to the MST for discussion prior to delivery of at-launch code. Now it appears that a few topics (e.g., look-up tables for emissive IR) will require additional discussion between MCST and the MST.

Guenther announced that an Emissive IR Workshop will be held in Miami on February 2 and 3. He hopes that at the workshop consensus can be reached as to which additional FM1 tests are the most important to conduct, considering cost and scheduling issues. Those interested in receiving an agenda and additional information should contact Guenther.

Guenther reported that the MCST flight ops team has experienced some difficulty interfacing with the ground control team.

2.4 GDAAC Report

Wharton distributed a response to the open action item (refer to paragraph 3.1) directing Masuoka, Guenther and himself to discuss when and how Version 2.1 will arrive, and how any slips will be handled (refer to Attachment 1). Wharton explained that the number of Version 2.1 PGEs that can be completed in time for launch is limited to a small number of high-priority PGEs (probably 5 or less). Murphy noted that 2.1 deliveries will be necessary for Geolocation and Level 1B. Esaias pointed out that a 2.1 Geolocation delivery is not necessary for ocean science.

Wharton distributed a summary of GDAAC status (refer to Attachment 2), and highlighted those items that have changed since last week's meeting. ECS Drop 3 is scheduled to commence installation on January 16; this represents a 4-day slip. Overall Wharton reported that things are going well, although he would like to complete remaining Category 2 and 3 fixes before the GDAAC is deluged with PGEs at the end of this month. He is pleased to report that more experienced personnel have come on-board to assist with the SSI&T effort.

2.5 MOCEAN Report

Esaias informed Masuoka that linear lat/long is not one of the standard map images supported by the toolkit. Masuoka agreed to look into this. Esaias stated that we are late with standard map products. Murphy asked if this will impede Level 2 products, and Esaias replied that it will not, although it stands in the way between MODIS and the user community.

Esaias reported that he gave a 20-minute presentation on MODIS at the SeaWiFS Science Team meeting which, overall, was very productive. He was pleased to hear the DAAC user services group announce that they will soon hire a person to address MODIS ocean data and services. The DAAC appears to be doing a good job with SeaWiFS distribution and outreach, and the added manpower will help assure a smooth transition in services when MODIS ocean data becomes available.

2.6 SDST Report

Masuoka reported that he had attended the ECS QA Workshop, where the MODIS discipline groups presented their respective QA plans. Masuoka gave the Oceans presentation with Esaias' help. Masuoka noted that SDST needs to provide support to the TLCF interface with the GDAAC. There are some issues regarding production that have to be worked with Miami. ECS took an action to investigate whether it can trace back who specifically updated QA flags.

Masuoka stated that a 2.1 delivery will be necessary for Geolocation. Among other things, 2.1 will incorporate a change to the read data from the instrument. Masuoka indicated that SDST will probably not be able to make a lot of enhancements to productivity by May 1, but these enhancements should be in before launch. Irrespective of the 2.1 delivery, there may be a quick fix to enhance speed which involves switching from attitude data to ephemeris data, or vice versa. Murphy added that at next week's meeting he would like to discuss a strategy to ensure good production across the board.

Masuoka reviewed the current Version 2 schedule (refer to Attachment 3). Salomonson asked about the status of Level 1B code, and Masuoka replied that it is back with the developer. Salomonson stated that delivery of Level 1B is a priority, as all higher-level products really depend on it.

Masuoka indicated that SDST would like to complete the Version 2.1 Geolocation, and he hopes that this delivery can be made by April 1. Overall SDST would like to receive 2.1 PGEs by April 1, assuming that the changes involve things that SDST has seen before. Masuoka will need to discuss 2.1 priorities with MODLAND. Esaias asked how much change to code entails a 2.1 delivery, and Wharton replied that it is somewhat of a judgment call. Masuoka replied that at the least he would like some indication of where the 2.0 code was altered. Once 2.1 deliveries are made, Masuoka and Wharton will attempt to get as much of it into the system as possible.

3.0 ACTION ITEMS

3.1 Action Items Carried Forward: Status Review

1. Masuoka, Guenther, and Wharton: Discuss when and how Version 2.1 will arrive, and how any slips will be handled. Investigate whether SDST really needs the 2.1 algorithm in November.

Status: This item remains open pending a response from SDST. For the GDAAC response, refer to Attachment 1.